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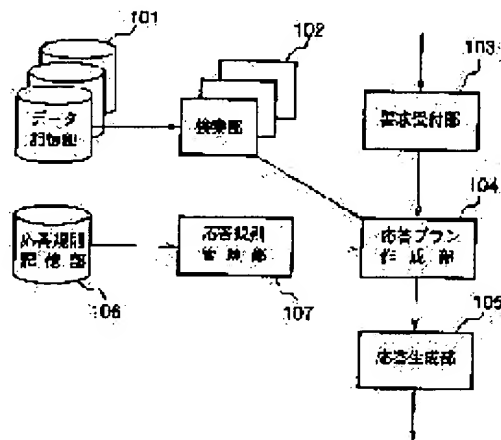(71)Applicant :   TOSHIBA CORP

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(54) INFORMATION PUBLIC OFFERING DEVICE AND MULTIMODAL INFORMATION INPUT/OUTPUT SYSTEM

(57)Abstract:

PURPOSE: To make individual information open to only a proper party by providing personal relation information on an individual who has information.

CONSTITUTION: A retrieval part 102 takes necessary data out of data stored in a data storage part 101. A request acceptance part 103 receives an input through a communication means and understands intention included in the input. An answering rule storage part 106 stores knowledge or rules required to plan answering at an answering plan generation part 104, and is managed by an answering rule management part 107. The answering plan generation part 104 plans an answer to a received request by using the stored knowledge or rule. Then an answer generation part 105 composes the answer of data of, for example, a text, a speech, an image, or a moving picture or their combination according to the plan generated by the answering plan generation part 104. In this case, the contents, etc., of information to be made open are controlled by referring to information such as the relation between the information provider and requesting person.

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CLAIMS

[Claim(s)]
[Claim 1] Information disclosure equipment characterized by providing the following. A data-storage means to memorize the data of a predetermined information gestalt. An information retrieval means to search the aforementioned data stored in the aforementioned data-storage means. The demand receptionist means for receiving the demand of information disclosure from an information-requirements person. A response rule storage means to store the personal-relations information about the characteristic personal relations between the user by the side of the information provider who owns the general knowledge and the aforementioned data for generating the response according to the aforementioned information-requirements person, and the user by the side of the aforementioned information-requirements person, Answer the aforementioned demand received by the aforementioned demand receptionist means, and it is based on the aforementioned knowledge and the aforementioned personal-relations information which were stored in the aforementioned response rule storage means. A response plan creation means to plan the response for showing the aforementioned information-requirements person the data which searched the aforementioned data memorized by the aforementioned data-storage means, and were obtained by the aforementioned information retrieval means, A response generation means to generate the response to the aforementioned information-requirements person according to a plan to have been created by the aforementioned response plan creation means.
[Claim 2] The aforementioned personal-relations information is information disclosure equipment according to claim 1 characterized by including either [at least] the information about the social relation between the user by the side of the aforementioned information provider, and the user by the side of the aforementioned information-requirements person, or the information about an individual relation.
[Claim 3] The aforementioned response plan creation means is information disclosure equipment according to claim 1 characterized by planning the content of the message to the range or the aforementioned information-requirements person of data who opens to the aforementioned information-requirements person according to the aforementioned personal-relations information.
[Claim 4] When the data obtained from other information disclosure equipments for the aforementioned data-storage means are memorized for the aforementioned response rule storage means, The connection method to information disclosure equipment is stored. being concerned -- others -- the aforementioned response plan creation means Information disclosure equipment given in the claim 1 characterized by planning the response which offers the aforementioned connection method to information disclosure equipment besides the above with reference to the aforementioned response rule storage means when there is a demand relevant to the data obtained from information disclosure equipment besides the above from the aforementioned information-requirements person, or any 1 term of 3.
[Claim 5] Information disclosure equipment given in the claim 1 characterized by having further a means to manage the feature information about the object field in which the user by the side of the aforementioned information-requirements person has interest, and a means to disclose the aforementioned feature information to the aforementioned information disclosure equipment, or any 1 term of 3.
[Claim 6] Information disclosure equipment characterized by providing the following. A demand receptionist means to receive the demand of the claimant inputted according to a predetermined information gestalt. A response rule storage means to store the general knowledge for generating the response according to the aforementioned claimant or the situation. A response plan creation means to plan the response for showing the aforementioned claimant using the aforementioned knowledge which answered the aforementioned demand received by the aforementioned demand receptionist means, and was stored in the aforementioned response rule storage means. A response generation means to generate the response to the aforementioned claimant according to the aforementioned plan drawn up by the aforementioned response plan creation means, A history storage means to match and memorize the demand of the aforementioned claimant received by the aforementioned demand receptionist means, and the response to the aforementioned claimant generated by the aforementioned response generation means, A history edit means to perform at least one of record of the aforementioned history information memorized by the aforementioned history storage means, change, and the deletion according to the directions from the aforementioned claimant.
[Claim 7] Information disclosure equipment characterized by providing the following. A data-storage means to memorize the data of a predetermined information gestalt. The demand receptionist means for receiving the demand of information disclosure from an information-requirements person. A reference means to search the aforementioned data from the aforementioned data-storage means according to the aforementioned demand received by the aforementioned demand receptionist means. The analysis means analyze the intention and the sentiment about the user by the side of the aforementioned information-requirements person according to the aforementioned demand received by the aforementioned demand receptionist means, the response plan creation means plan the response to the aforementioned information-requirements person based on the analysis result by the aforementioned analysis means, and the response generation means generate the response to the aforementioned information-requirements person according to the

aforementioned plan generated by the aforementioned response plan generation means.

[Claim 8] It has further a situation check means to check whether a direct circuit can be established among the information providers who own the aforementioned data with the aforementioned information-requirements person. A direct circuit establishment determination means to determine to establish a direct circuit based on the analysis result by the aforementioned analysis means, and the check result by the aforementioned situation check means between the information provider sides who own the aforementioned data the aforementioned information provider side, Information disclosure equipment according to claim 7 characterized by having further a direct circuit establishment execution means to establish a direct circuit, according to the result of the aforementioned direct circuit establishment determination means.

[Claim 9] Information disclosure equipment characterized by providing the following. A data-storage means to memorize the data of a predetermined gestalt. A data-information storage means to memorize the data information which described the degree of secrecy and difficulty of the data concerned about each data memorized by the aforementioned data storage. A user information-storage means to memorize the user information which described each authority and familiarity to each data of an information-requirements person. A reference presentation means to search and show data to the data presentation demand from the aforementioned information-requirements person based on the aforementioned data information, An I/O means to perform I/O with the information provider who manages the aforementioned information-requirements person and the information disclosure equipment concerned, A response history storage means to memorize the response history information which is the history of the response between the information disclosure equipment concerned using the aforementioned I/O means, the aforementioned information-requirements person, and the aforementioned information provider, An edit means for it to be based on the aforementioned response history information, and to create or change the aforementioned data information when the data which can be satisfied to a demand of the aforementioned information-requirements person cannot be shown and the aforementioned information provider performs presentation of a direct response and demand data to the information-requirements person concerned.

[Claim 10] Information disclosure equipment characterized by providing the following. A data-storage means to memorize the data of a predetermined gestalt. A data-information storage means to memorize the data information which described the degree of secrecy and difficulty of the data concerned about each data memorized by the aforementioned data storage. A user information-storage means to memorize the user information which described each authority and familiarity to each data of an information-requirements person. It is based on the aforementioned user information and the aforementioned data information corresponding to the information-requirements person concerned to the data presentation demand from the aforementioned information-requirements person. A reference presentation means to search and show the data of the degree of secrecy according to authority and familiarity of the information-requirements person concerned, and difficulty, An I/O means to perform I/O with the information provider who manages the aforementioned information-requirements person and the information disclosure equipment concerned, A response history storage means to memorize the response history information which is the history of the response between the information disclosure equipment concerned using the aforementioned I/O means, the aforementioned information-requirements person, and the aforementioned information provider, The data which can be satisfied to a demand of the aforementioned information-requirements person cannot be shown. An edit means for it to be based on the aforementioned response history information, and to create or change the aforementioned data information and the aforementioned user information of the information-requirements person concerned when the aforementioned information provider performs presentation of a direct response and demand data to the information-requirements person concerned.

[Claim 11] A means to input either [at least] a user's language information or directions information through the input media of at least one form containing voice input. A means to give at least one of accumulation processing, processing processing, recognition processing, and the understanding processings to this language information or the directions information that it was inputted. It is the multi-modal information input/output system equipped with the above, and is characterized by having a means to understand at least one of an intention of a user, sentiment, and the situations from the aforementioned user's voice input.

[Claim 12] Multi-modal information input/output system given in claim 11 term characterized by having further a means to show at least one side of the non-language voice accompanied by the language voice and the sentiment information accompanied by sentiment information from a system side to a user.

[Translation done.]